August 29, 1996

Project No. 29.12

Ms. Sue Jenné
East Bay Municipal Utilities District
Mail Slot #702
Source Control Division
P.O. Box 24055
Oakland, California 94623-1055

RE: Account No. 503-33240
Pacific Supply Company
1735 24th Street
Oakland, California

Dear Ms. Jenné:

Enclosed please find the final SEMI-ANNUAL report application for Wastewater Discharge Permit No. 503-33240 for the Pacific Supply Company, Oakland, California. If you have questions please call Joel Bruxvoort of BACE Environmental a division of Brunsing Associates, Inc. (BAI) at (415) 364-9030.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or the persons directly responsible for gathering information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

Normita Callison
Corporate Environmental Affairs Officer

Enclosures: August 28, 1996 Semi-Annual Report

BACE Environmental
A Division Of
Brunsing Associates, Inc.

August 28, 1996 Project No. 29.7/12

Ms. Normita Callison
Pacific Coast Building Products
4290 Roseville Road
North Highlands, California 95660

RE: Semi-annual Monitoring Report
and Final Treatment System Operation Report: July 1996
Pacific Supply Company
1735 24th Street
Oakland, California

Dear Ms. Callison:

This report has been prepared to document groundwater monitoring and shut down of the soil vapor extraction treatment system. This work was performed by BACE Environmental, a division of Brunsing Associates, Inc. (BAI) at the Pacific Supply Company property at 1735 24th Street, Oakland, California.

1.0 Scope of Work

On July 28, 1996, the vapor extraction treatment system was shut down. In addition, work performed during this reporting period included testing for the existence of free product, calculating groundwater elevations, and collecting groundwater samples from onsite monitoring well MW-2 (Plate 1). This semi-annual sampling event was completed according to the schedule required by Jennifer Eberle in a letter dated February 6, 1996.

2.0 Site Background

Monitoring wells MW-1 through MW-5 were constructed in September, 1988 as the first phase of a soil and groundwater investigation. Monitoring wells MW-6 and MW-7 were constructed on December 19, 1989 during Phase II of the same investigation. Monitoring wells MW-4, MW-5, MW-6 and MW-7 were monitored for depth to groundwater. The construction and sampling of these wells are documented in BAI's Report of Findings, dated March 23, 1990.

Vapor recovery wells VRW-1 though VRW-9 were constructed in August, 1993 as part of a vapor recovery system. Installation of these wells were documented in a February 7, 1994 report. A vapor extraction system was installed in the fall of 1993

and began operation on December 26, 1993. This system consists of an internal combustion engine with a spray aeration tank for treatment of groundwater and activated carbon treatment of groundwater prior to discharge. The internal combustion unit and spray aeration unit was manufactured by Remediation Service International (RSI) under the trade name Spray Aeration Vapor Extraction (SAVE) system. A current discharge permit is in place with the Bay Area Air Quality Management District (BAAQMD) for vapor emissions, as well as a permit with East Bay Municipal Utility District (EBMUD) for treated groundwater discharge to the sanitary sewer. The sewer discharge permit is effective from March 1, 1996 through February 28, 1997.

The downwell submersible pump previously located at VRW-5 was moved to VRW-1 on March 11, 1996. The purpose of this pump is to drawdown groundwater in contaminated soils so that petroleum hydrocarbons can more easily vaporize and be extracted through the vapor extraction system. The pump was moved to VRW-1 due to its close proximity to MW-2, were the highest concentrations of TPH as gasoline have been reported for the site. Pumping groundwater from VRW-1 is expected to expose the contaminated soil in the vicinity of MW-2, increasing the yield of petroleum hydrocarbons extracted.

Table 1 is a cumulative summary of the groundwater analytical data and groundwater elevation data available for the site.

3.0 Remediation System Shut-down

Remediation System Shut-down

On June 28, 1996 the treatment system was shut down with the concurrence of Pacific Supply Company. The shut down was completed for the following immediate reasons:

- Non-compliance with California OSHA regulations regarding the operation of the aboveground propane tank for supplemental fuel. The propane tank was removed from the site by its owner (Northern Energy) on July 3, 1996.

- Non-compliance with BAAQMD permit regarding destruction efficiency. Non-compliance was most likely the result of poor engine combustion as a result of a blown piston caused by normal wear and tear.

In addition to these immediate reasons for system shut down, the cost of continued operation of this system compared to the relative benefit received was no longer favorable.

Prior to shut down, the system had destroyed an estimated 6,550 pounds of petroleum hydrocarbons since start of operations on December 23, 1996 as shown on Table 2. After shut down, the water in the water tank was treated and discharged to the sanitary sewer under the existing permit and the inside of the tank was cleaned on July 15, 1996.

Discharges under the existing permits have been stopped. The permit with the BAAQMD will not be renewed as of September 1, 1993. The water discharge permit was discontinued on July 31, 1996. The total water volume discharged to the sanitary sewer as of June 28, 1996 was 149,600 gallons. The water volume discharged during this reporting period was 58,700 gallons. On March 2, 1996, water samples were collected from the treatment system water discharge sampling ports; one water sample was collected before the in-series carbon vessels (Sample C), one sample was collected from between the carbon vessels (Sample B), and one sample was collected from the carbon vessel effluent which discharges directly to the sanitary sewer (Sample A). Total petroleum hydrocarbons were not detected in any of the water samples. Benzene, toluene, ethylbenzene, and xylene (BTEX) were detected in water Sample C at concentrations of 3.2, 2.3, 1.4, and 7.5 micrograms per liter (µg/L), respectively. Water sample C represents the influent to the carbons vessels. BTEX was not detected in the effluent water samples A or B. The analytical report documenting these results is included in Appendix B.

Proposed Alternative Remediation

With the concurrence of Pacific Supply Company, BAI proposes using natural attenuation of petroleum hydrocarbons in the groundwater in combination with the current groundwater monitoring requirements to complete the remediation at the site.

Natural attenuation of petroleum hydrocarbons utilizes the naturally occurring biological breakdown processes to destroy the remaining hydrocarbons at the site. Natural attenuation has been found at other sites to be effective in destroying petroleum hydrocarbons and limiting their movement.

The existing treatment system and compound can be dismantled after approval of the Alameda County Department of Health Services.

4.0 Semi-annual Groundwater Monitoring

Groundwater Elevations

Depth to groundwater measurements were obtained on July 15, 1996 for wells MW-1 through MW-5, and well MW-7. The groundwater depths and elevations relative to mean sea level are shown on Plate 1 and in Table 1, with the analytical data. The groundwater flow direction near the former UST location is to the north, with a gradient of 0.003 foot per foot, based on the groundwater elevations in wells MW-1, MW-2, and MW-3. Monitoring well MW-7 continues to indicate an anomalously low groundwater elevation by a magnitude of several feet. The potentiometric surface contours are shown on Plate 1.

Groundwater Sampling

Groundwater monitoring well MW-2 was sampled on July 15, 1996 using the methods described in Appendix A. Free product was not found in this well. The groundwater sample was transported to BACE Analytical and Field Services (BAFS) for analyses using the following analytical methods:

- Total Petroleum Hydrocarbons (TPH) as gasoline
  -EPA Test Method 5030/GCFID;

- Benzene, Toluene, Ethylbenzene and Xylenes (BTEX)
  -EPA Test Method 5030/8020.

Groundwater Analytical Results

The monitoring results indicate a TPH as gasoline concentration of 2.8 milligrams per liter (mg/L) in the groundwater sample collected from monitoring well MW-2. BTEX was also detected in the sample collected from well MW-2. Wells MW-1, MW-3, MW-4, MW-5, and MW-7 were not sampled during this period. Well MW-6 was not monitored during this quarter and will not be monitored in the future.

Analytical laboratory results for the July 15, 1996 groundwater monitoring event are summarized in Table 1. The TPH as gasoline concentration for well MW-2 is shown on Plate 2. The laboratory report and Chain-of-Custody form for this sampling event are included in Appendix B.

If you have any questions, please contact Joel Bruxvoort at (415) 364-9030.

Sincerely,

Joel Bruxvoort
Project Geologist

Diana M. Dickerson R.G., R.E.A
Senior Geologist

REGISTERED GEOLOGIST
DIANA M. DICKERSON
NO. 6013
STATE OF CALIFORNIA

cc: Jennifer Eberle, Alameda County Health Agency
Tony DeJohn, Pacific Supply Company

List of Attachments

Table 1 - Analytical Data Summary
Table 2 - Soil Gas Concentrations
Plate 1 - Groundwater Elevations, July 15, 1996
Plate 2 - Total Petroleum Hydrocarbons as Gasoline, July 15, 1996

Appendix A - Monitoring Well Sampling Protocol
Appendix B - Analytical Laboratory Reports

Table 1
ANALYTICAL DATA SUMMARY
Pacific Supply Company
1735 24th Street, Oakland, California

Well Name	Sampling Date	Depth to Groundwater (feet)	Groundwater Elevation (feet, MSL)	TPH as gasoline mg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	Lead mg/L
MW-1	10/14/88	7.99	0.88	1.1	1.1	ND	–	ND	–
MW-1	12/29/89	7.74	1.13	ND	ND	ND	ND	ND	ND (1)
MW-1	5/28/92	7.81	1.06	ND	ND	ND	ND	ND	0.003(2)
MW-1	9/3/92	7.90	0.97	ND	ND	ND	ND	ND	0.12 (2)
MW-1	11/24/92	7.90	0.97	ND	ND	ND	ND	ND	0.017 (2)
MW-1	3/9/93	7.38	1.49	ND	ND	ND	ND	ND	ND (1)
MW-1	7/21/93	7.68	1.19	ND	ND	ND	ND	ND	ND (1)
MW-1	11/3/93	7.83	1.04	ND	ND	ND	ND	ND	ND (1)
MW-1	2/1/94	7.30	1.57	ND	ND	ND	ND	ND	ND (1)
MW-1	6/2/94	7.43	1.44	ND	ND	ND	ND	ND	ND (1)
MW-1	9/1/94	7.70	1.17	ND	ND	ND	ND	ND	ND (1)
MW-1	12/13/94	6.90	1.97	ND	ND	ND	ND	ND	–
MW-1	3/7/95	7.30	1.57	0.06	3.8	ND	ND	ND	–
MW-1	6/9/95	7.87	1.00	0.09	12	0.8	0.5	1.3	–
MW-1	9/21/95	7.67	1.20	ND	4.1	ND	ND	ND	–
MW-1	12/18/95	7.15	1.72	ND	ND	ND	ND	ND	–
MW-1	2/29/96	6.74	2.13	0.09	1.4	0.5	ND	0.8	–
MW-1	7/15/96	7.76	1.11	–	–	–	–	–	–

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Pacific Supply Company
1735 24th Street, Oakland, California

Well Name	Sampling Date	Depth to Groundwater (feet)	Groundwater Elevation (feet, MSL)	TPH as gasoline mg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	Lead mg/L
MW-2	10/14/88	7.29	0.85	11	23	20	–	16	–
MW-2	12/29/89	6.87	1.27	4	200	6.7	ND	ND	0.22 (1)
MW-2	5/28/92	6.92	1.22	8.9	550	48	ND	13	ND (2)
MW-2	9/3/92	7.26	0.88	2.1	760	6.2	1.8	5.1	0.006 (2)
MW-2	11/24/92	7.28	0.86	4.2	370	15	3.4	9.5	ND (2)
MW-2	3/9/93	6.73	1.41	4.3	280	14	3.7	7.1	ND (1)
MW-2	7/21/93	7.02	1.12	3.4	250	9.6	2.5	11	ND(1)
MW-2	11/4/93	7.22	0.92	2.5	230	7.8	2.1	9.9	ND(1)
MW-2	2/1/94	6.93	1.21	3.4	240	17	ND	15	ND(1)
MW-2	6/2/94	6.86	1.28	3.0	150	9.8	3.0	10	ND(1)
MW-2	9/1/94	7.10	1.04	2.1	120	9.8	2.0	9.6	ND(1)
MW-2	12/13/94	6.58	1.56	2.0	200	10	2.7	11	–
MW-2	3/7/95	6.69	1.45	3.0	500	15	5.8	16	–
MW-2	6/9/95	7.00	1.14	2.1	300	14	5.8	13	–
MW-2	9/21/95	6.91	1.23	1.6	120	9.6	ND	15	–
MW-2	12/18/95	6.73	1.41	2.8	120	16	5.2	19	–
MW-2	2/29/96	6.36	1.78	1.7	170	15	2.9	17	–
MW-2	7/15/96	7.11	1.03	2.8	160	22	3.5	17	–

Table 1
ANALYTICAL DATA SUMMARY
Pacific Supply Company
1735 24th Street, Oakland, California

Well Name	Sampling Date	Depth to Groundwater (feet)	Groundwater Elevation (feet, MSL)	TPH as gasoline mg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	Lead mg/L
MW-3	10/14/88	8.25	0.88	3.4	ND	ND	–	2.8	–
MW-3	12/29/89	7.79	1.34	ND	ND	ND	ND	ND	0.205 (1)
MW-3	5/28/92	7.83	1.30	ND	0.8	0.5	ND	ND	0.016 (2)
MW-3	9/3/92	8.22	0.91	ND	ND	ND	ND	ND	0.033 (2)
MW-3	11/24/92	8.29	0.84	ND	ND	ND	ND	ND	0.011 (2)
MW-3	3/9/93	7.30	1.83	0.1	1.8	ND	ND	ND	ND(1)
MW-3	7/21/93	7.87	1.26	ND	ND	ND	ND	ND	ND(1)
MW-3	11/4/93	8.23	0.90	0.07	0.6	0.5	ND	ND	ND(1)
MW-3	2/1/94	7.56	1.57	ND	ND	ND	ND	ND	ND(1)
MW-3	6/2/94	7.46	1.67	0.06	ND	ND	ND	ND	ND(1)
MW-3	9/1/94	7.83	1.30	0.07	1.7	0.9	ND	ND	ND(1)
MW-3	12/13/94	7.07	2.06	0.06	1.4	ND	ND	ND	–
MW-3	3/8/95	7.27	1.86	0.06	1.5	ND	ND	ND	–
MW-3	6/9/95	7.79	1.34	0.10	5.7	ND	ND	ND	–
MW-3	9/21/95	7.87	1.26	ND	1.5	ND	ND	ND	–
MW-3	12/18/95	7.30	1.83	ND	1.3	ND	ND	ND	–
MW-3	2/29/96	6.84	2.29	ND	2.1	0.6	ND	0.7	–
MW-3	7/15/96	7.79	1.34	–	–	–	–	–	–

Table 1
ANALYTICAL DATA SUMMARY
Pacific Supply Company
1735 24th Street, Oakland, California

Well Name	Sampling Date	Depth to Groundwater (feet)	Groundwater Elevation (feet, MSL)	TPH as gasoline mg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	Lead mg/L
MW-4	10/14/88	8.33	0.74	4.6	1.2	ND	–	2.2	–
MW-4	12/29/89	8.08	0.99	0.5	0.7	ND	ND	ND	ND (1)
MW-4	5/28/92	8.19	0.88	0.27	8.8	1	ND	3.2	0.030 (2)
MW-4	9/3/92	8.37	0.70	0.20	4.5	4.4	ND	1.9	0.022 (2)
MW-4	11/24/92	8.28	0.79	0.14	3.2	3.2	ND	1.0	0.005 (2)
MW-4	3/9/93	7.98	1.09	0.47	10	ND	ND	2.5	ND (1)
MW-4	7/21/93	8.17	0.90	0.28	4.4	5.9	ND	ND	ND(1)
MW-4	11/4/93	8.14	0.93	0.08	1.3	1.6	ND	ND	ND(1)
MW-4	2/1/94	7.79	1.28	0.08	ND	ND	ND	ND	ND(1)
MW-4	6/2/94	7.53	1.54	0.30	3.1	2.9	ND	0.8	ND(1)
MW-4	9/1/94	7.69	1.38	0.12	1.6	ND	ND	ND	ND(1)
MW-4	12/13/94	6.70	2.37	ND	ND	ND	ND	ND	–
MW-4	3/8/95	6.83	2.24	0.09	ND	ND	ND	ND	–
MW-4	6/9/95	7.66	1.41	0.19	ND	ND	ND	ND	–
MW-4	9/21/95	7.93	1.14	0.09	ND	ND	ND	ND	–
MW-4	12/18/95	6.98	2.09	–	–	–	–	–	–
MW-4	2/29/96	6.54	2.53	0.14	1.6	1	ND	0.6	–
MW-4	7/15/96	7.74	1.33	–	–	–	–	–	–

Table 1
ANALYTICAL DATA SUMMARY
Pacific Supply Company
1735 24th Street, Oakland, California

Well Name	Sampling Date	Depth to Groundwater (feet)	Groundwater Elevation (feet, MSL)	TPH as gasoline mg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	Lead mg/L
MW-5	10/14/88	8.04	0.89	3.2	ND	ND	–	ND	–
MW-5	12/29/89	7.40	1.53	ND	ND	ND	ND	ND	ND (1)
MW-5	5/28/92	7.53	1.40	ND	ND	ND	ND	ND	0.008 (2)
MW-5	9/3/92	8.02	0.91	ND	ND	ND	ND	ND	0.034 (2)
MW-5	11/24/92	7.75	1.18	ND	ND	ND	ND	ND	0.011 (2)
MW-5	3/9/93	6.91	2.02	ND	ND	ND	ND	ND	ND (1)
MW-5	7/21/93	7.57	1.36	ND	ND	ND	ND	ND	ND(1)
MW-5	11/4/93	7.77	1.16	ND	ND	ND	ND	ND	ND(1)
MW-5	2/1/94	7.05	1.88	ND	ND	ND	ND	ND	ND(1)
MW-5	6/2/94	7.18	1.75	ND	ND	ND	ND	ND	ND(1)
MW-5	9/1/94	7.53	1.40	ND	ND	ND	ND	ND	–
MW-5	3/8/95	6.67	2.26	ND	ND	ND	ND	ND	–
MW-5	6/9/95	7.33	1.60	ND	ND	ND	ND	ND	–
MW-5	9/21/95	7.67	1.26	ND	ND	ND	ND	ND	–
MW-5	12/18/95	6.62	2.31	–	–	–	–	–	–
MW-5	2/29/96	6.16	2.77	ND	ND	ND	ND	ND	–
MW-5	7/15/96	7.47	1.46	–	–	–	–	–	–

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Pacific Supply Company
1735 24th Street, Oakland, California

Well Name	Sampling Date	Depth to Groundwater (feet)	Groundwater Elevation (feet, MSL)	TPH as gasoline mg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	Lead mg/L
MW-6	12/29/89	5.02	1.11	1.1	5.4	4.5	ND	ND	ND (1)
MW-6	3/9/93	5.10	1.03	2.3	2.3	2.8	ND	3.1	ND (1)
MW-6	7/21/93	5.23	0.90	0.59	ND	7.6	ND	ND	ND(1)
MW-6	11/4/93	5.25	0.88	1.5	ND	1.2	ND	0.7	ND(1)
MW-6	2/1/94	5.05	1.08	1.9	2.5	3.9	1.6	1.1	ND(1)
MW-6	6/2/94	4.49	1.64	1.3	ND	1	ND	ND	ND(1)
MW-6	9/1/94	4.53	1.60	2.2	ND	1.7	ND	ND	ND(1)
MW-6	12/13/94	4.27	1.86	0.66 (3)	ND	ND	ND	ND	–
MW-6	3/8/95	3.37	2.76	1.0 (3)	ND	ND	ND	ND	–
MW-6	6/9/95	4.40	1.73	1.5	ND	3.3	ND	ND	–
MW-6	9/21/95	4.69	1.44	0.28	ND	ND	ND	ND	–
MW-6	12/18/95	4.42	1.71	–	–	–	–	–	–

Note: Based on the February 6, 1996 letter from Jennifer Eberle, monitoring of well MW-6 is no longer required.

Table 1
ANALYTICAL DATA SUMMARY
Pacific Supply Company
1735 24th Street, Oakland, California

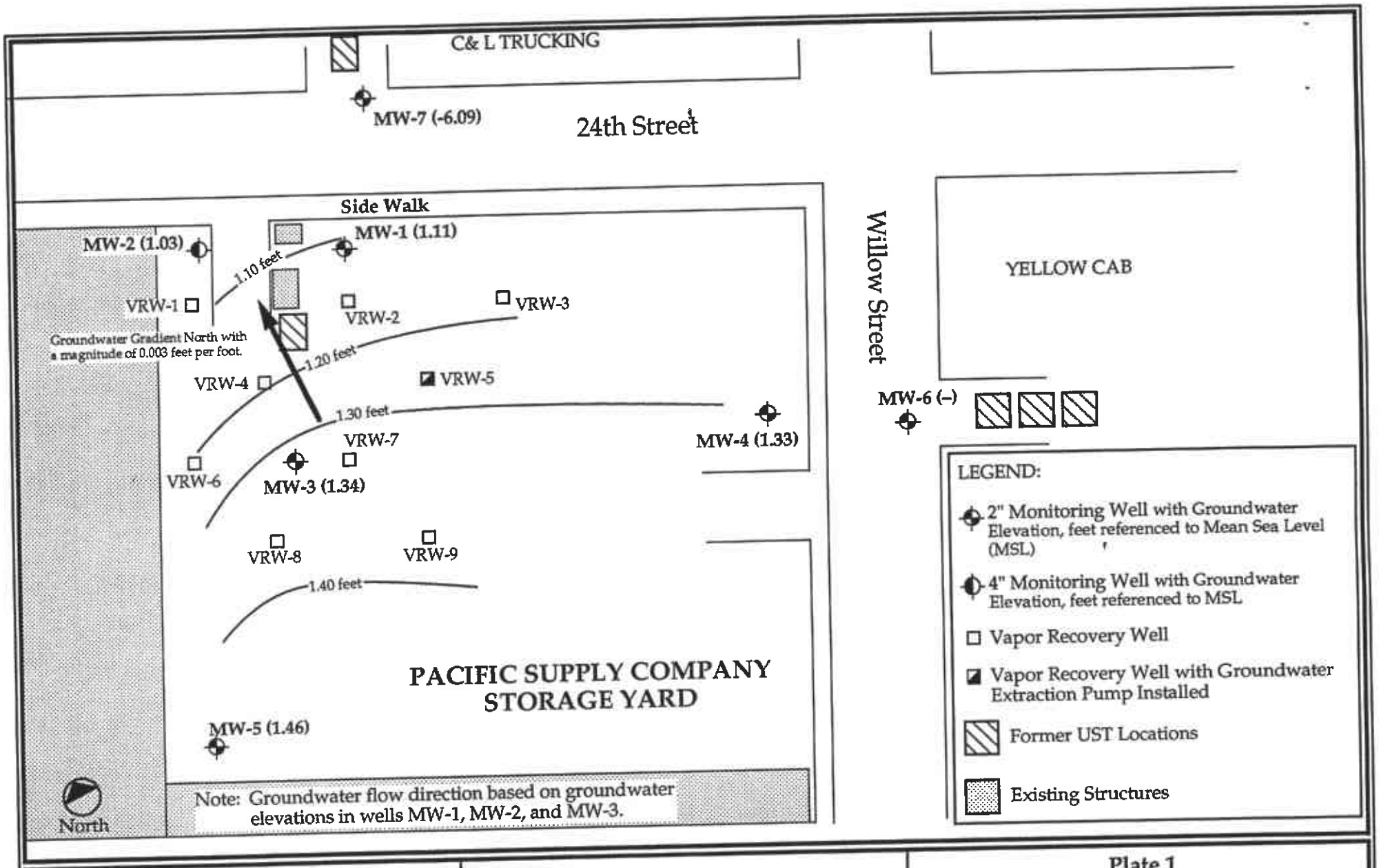
Well Name	Sampling Date	Depth to Groundwater (feet)	Groundwater Elevation (feet, MSL)	TPH as gasoline mg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	Lead mg/L
MW-7	12/29/89	8.35	-3.32	ND	ND	ND	ND	ND	0.235 (1)
MW-7	3/9/93	13.60	-8.57	ND	ND	ND	ND	ND	ND (1)
MW-7	7/21/93	12.59	-7.56	ND	ND	ND	ND	ND	ND(1)
MW-7	11/4/93	9.84	-4.81	ND	ND	ND	ND	ND	ND(1)
MW-7	2/1/94	10.38	-5.35	ND	ND	ND	ND	ND	ND(1)
MW-7	6/2/94	10.10	-5.07	ND	ND	ND	ND	ND	ND(1)
MW-7	9/1/94	9.63	-4.60	ND	ND	ND	ND	ND	ND(1)
MW-7	12/13/94	11.27	-6.24	ND	ND	ND	ND	ND	–
MW-7	3/7/95	9.68	-4.65	ND	ND	ND	ND	ND	–
MW-7	6/9/95	9.37	-4.34	ND	ND	ND	ND	ND	–
MW-7	9/21/95	9.43	-4.40	ND	ND	ND	ND	ND	–
MW-7	12/18/95	13.28	-8.25	–	–	–	–	–	–
MW-7	2/29/96	11.70	-6.67	ND	ND	ND	ND	ND	–
MW-7	7/15/96	11.12	-6.09	–	–	–	–	–	–

Notes:
(1) Organic Lead
(2) Total Lead
(3) Chromatographic peak array does not match gasoline standard
ND = not detected at laboratory reporting limit
µg/L = micrograms per liter
mg/L = milligrams per liter
– = not analyzed
MSL = mean seal level
Groundwater elevations based on the following well casing elevations:
MW-1 (8.87'), MW-2 (8.14'), MW-3 (9.13'), MW-4 (9.07')
MW-5 (8.93'), MW-6 (6.13') and MW-7 (9.68').

Table 2
SOIL GAS CONCENTRATIONS
Pacific Supply Company
1735 24th Street, Oakland, California

Date Sampled	Soil Gas Treatment System Influent TPH-gas PPMV	Benzene PPMV	Toluene PPMV	Ethylbenzene PPMV	Xylenes PPMV	Hydrocarbon Destruction Rate (pounds/day)	Cummulative Hydrocarbons Destroyed (pounds)
12/27/93	6,800	380	230	19	58	–	–
12/28/93	11,000	340	430	28	92	–	–
12/29/93	9,400	340	270	16	48	–	–
1/13/94	7,600	200	260	280	100	–	–
1/26/94	7,900	270	270	15	29	–	–
2/11/94	5,600	170	190	7.6	21	–	–
2/23/94	3,300	100	140	15	46	–	–
3/14/94	3,200	56	85	6.7	30	–	–
3/23/94	1,400	19	53	6.2	22	–	–
4/21/94	1,100	15	23	ND	3.7	–	–
5/2/94	1,200	9.4	18	1.4	6.9	–	–
5/16/94	1,400	25	43	4.6	18	–	–
6/1/94	680	6.6	8.5	1.5	8.3	–	–
6/13/94	980	9.4	17	2.1	7.2	–	–
8/1/94	2,200	81	96	12	41	–	–
8/15/94	11,000	280	380	140	550	–	–
8/30/94	3,300	110	150	27	100	15.9	1,866
9/13/94	18,000	13	11	9.2	28	63.2	2,511
9/26/94	11,000	280	500	96	350	24.8	3,147
10/10/94	9,500	390	820	170	660	17.1	3,394
10/28/94	2,000	73	130	23	99	7.0	3,482
11/8/94	4,000	110	200	46	170	21.6	3,488
11/21/94	3,300	60	110	20	96	13.5	3,490
12/22/94	570	14	8.8	10	9.0	2.8	3,491
1/5/95	370	10	9.3	2.8	9.2	2.3	3,525
2/13/95	3,100	48	89	27	130	5.6	3,628
2/27/95	3,100	47	51	19	78	8.4	3,660
3/13/95	1,600	24	17	6.0	25	13.0	3,749
5/15/95	1,700	26	25	9.3	27	11.5	3,812
5/30/95	5,000	90	34	13	46	33.8	4,012
6/12/95	2,300	34	31	9.3	30	20.2	4,233
6/26/95	1,200	15	14	2.0	12	15.8	4,409
7/10/95	4,100	62	40	17.0	62	15.8	4,456
7/24/95	2,300	29	30	9.6	43	9.5	4,551
7/31/95	1,600	29	27	11.0	48	7.5	4,600
8/10/95	1,500	19	20	6.8	25	15.0	4,687
8/19/95	1,200	14	16	4.8	20	16.2	4,767
9/5/95	1,100	18	18	4.1	15	13.7	4,984
9/18/95	900	15	16	4.8	17	12.2	5,115
10/2/95	1,000	15	22	6.1	30	11.3	5,260
10/16/95	830	12	15	3.9	16	9.5	5,379
10/30/95	900	18	18	3.6	14	10.3	5,489
11/13/95	900	15	21	4.8	16	10.2	5,610
11/27/95	1,400	24	31	6.8	27	0.1	5,611
12/14/95	2,500	34	47	11.0	32	29.5	5,972
1/29/96	600	12	15	2.3	9	4.9	6,087
3/12/96	270	3	5	1.1	3	2.7	6,110
3/26/96	73	1	2	0.6	2	0.9	6,128
4/8/96	97	2	2	0.6	3	0.5	6,138
4/22/96	57	1	1	0.3	1	0.6	6,151
5/6/96	1,500	17	19	6.4	22	16.1	6,220
5/20/96	310	3.4	6	1.7	7	2.4	6,399
6/3/96	330	4	6	1.3	7	4.1	6,450
6/28/96	1,900	23	25	6.1	22	20.0	6,555

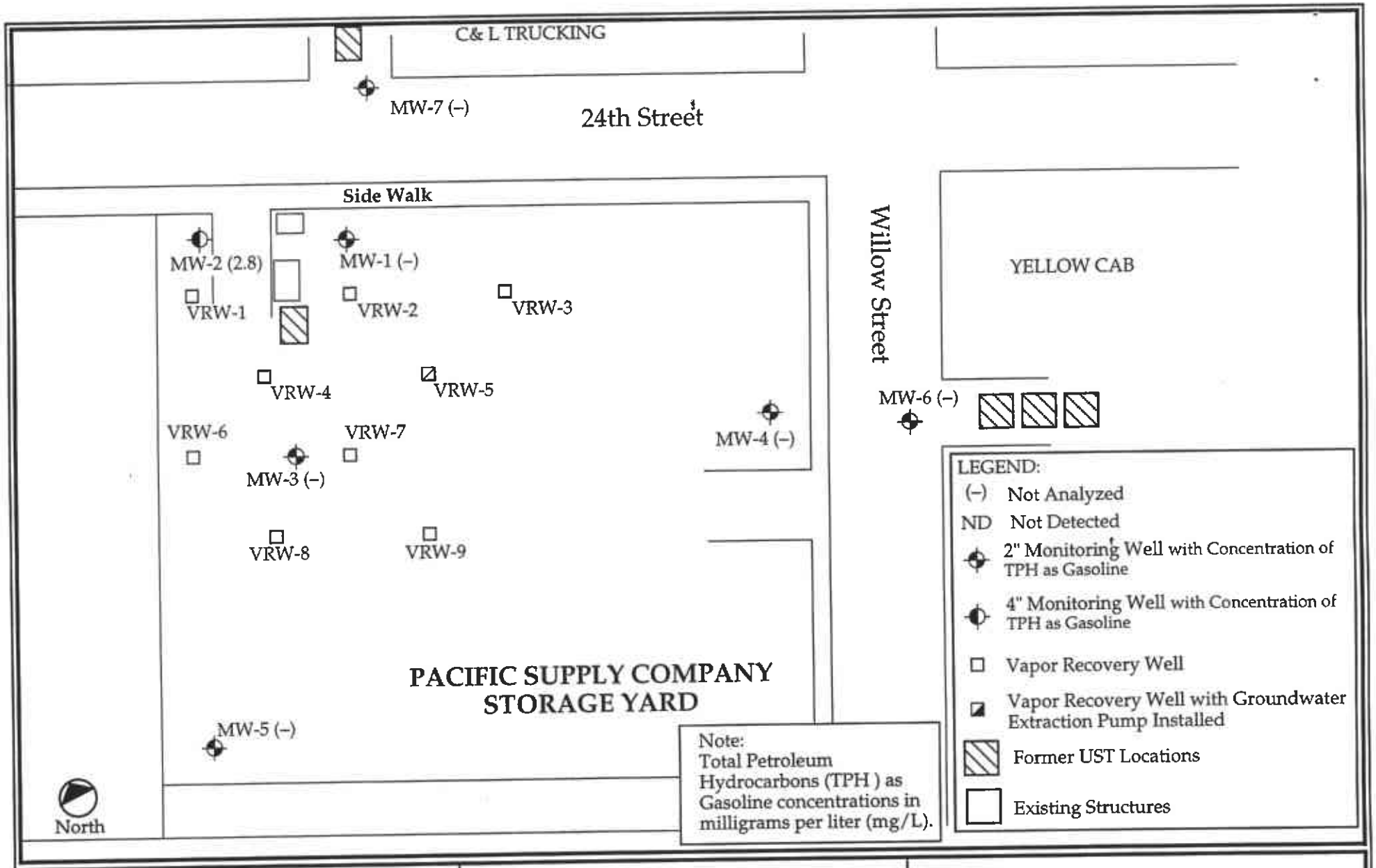
Notes:
PPMV = parts per million by volume
– = specific calculation not completed
TPH = Total Petroleum Hydrocarbons



PROJECT NUMBER: 29.7 PACIFIC SUPPLY COMPANY OAKLAND, CALIFORNIA		
DRAWING NUMBER: 29.7-01		
DRAWN BY:	TFA	8/8/96
APPROVED BY:	JBB	8/28/96
SCALE: 1 Inch = 50 Feet		

BACE Environmental
A Division of
Brunsing Associates, Inc.

Plate 1
Groundwater Elevations
July 15, 1996
Pacific Supply Company
1735 24th Street
Oakland, California



PROJECT NUMBER: 29.7 PACIFIC SUPPLY COMPANY OAKLAND, CALIFORNIA		
DRAWING NUMBER: 29.7-01		
DRAWN BY:	TFA	8/8/96
APPROVED BY:	DMQ	8/28/96
SCALE: 1 Inch = 50 Feet		

BACE Environmental

A Division of

Brunsing Associates, Inc.

Plate 2

Total Petroleum Hydrocarbons as Gasoline

July 15, 1996

Pacific Supply Company

1735 24th Street

Oakland, California

APPENDIX A

Monitoring Well Sampling Protocol

Monitoring Well Sampling Protocol

Prior to purging of each monitoring well, the groundwater level is measured and a single bailer full of water is retrieved from the well to check for floating product. The monitoring well is then purged until a minimum of three casing volumes of water are removed, water is relatively clear of sediment, and pH, conductivity, and temperature measurements of the water stabilizes. If wells go dry during purging, the wells are allowed to recover to 80 percent of original water level prior to sampling.

A single groundwater sample is collected from each monitoring well following re-equilibration of each well after purging. Individual log sheets are maintained throughout the sampling operations. The following information is recorded:

- Sample number
- Date and time sampled and purged
- Sampling location
- Types of sampling equipment used
- Name of sampler(s)
- Volume of water purged.

The sample is collected in the following manner:

- A hand-operated, factory-sealed, disposable, polyethylene bailer with sampling port is used for collecting all water samples. A factory provided attachment designed for use with volatile organic compounds (VOCs) is attached to the sampling port when collecting samples to be analyzed for VOCs.

- The sample container(s) are obtained directly from the analytical laboratory. Sample bottles, bottle caps, and septa are protected from solvent contact, dust or other contamination between time of receipt by the field sampler and time of actual usage at the sampling site.

The sample container is labeled with a self-adhesive tag. Field personnel label the tag, using waterproof ink, with the following information:

- Project number
- Sample number
- Date and time sample is obtained
- Initials of sample collector(s).

Following collection, the sample is immediately stored on blue ice in an appropriate container. A Chain-of-Custody Record is completed with the following information:

- Date the sample was taken
- Sample number and the number of containers
- Analyses required
- Remarks including preservatives added and any special conditions.

The original copy of the Chain-of-Custody Record accompanies the sample containers to a California-certified laboratory. The duplicate copy is retained by the BAI representative who sampled the well.

Sampling equipment is cleaned both before and after their use at the sampling location. Thermometers, pH electrodes, and conductivity probes are also cleaned.

The following cleaning procedures are used:

- Scrub with a detergent-potable water solution or other solutions deemed appropriate using a hard bristle brush
- Rinse with potable water
- Double-rinse with organic-free or deionized water
- Package and seal equipment in plastic bags or other appropriate containers to prevent contact with solvents, dust, or other contaminants.

Cleaning solutions are added to the storage tank for processing on-site by the permitted groundwater treatment system prior to discharging to the sanitary sewer.

APPENDIX B
Analytical Laboratory Reports

BACE Analytical
& Field Services, Inc.

August 1, 1996
Log No: 2461
Laboratory Certification Number: 1264

BACE Environmental
a division of
Brunsing Associates, Inc.
P. O. Box 588
Windsor, California 95492

ATTN: Joel Bruxvoort

RE: Results of the analyses of groundwater samples obtained for project number 29.7 on July 15, 1996.

Dear Mr. Bruxvoort,

This letter serves to confirm the analytical results previously communicated to you. Should any questions arise concerning procedure or results, please feel free to contact us.

Sincerely,

William G. Rotz
Director, Mobile Analytical Services

Tami Hucke Norgrove
Laboratory Manager

Client: BACE Environmental
Client Contact: Joel Bruxvoort

Sample Date: 7/15/96
Analysis Date: 7/29/96

BAFS Log No: 2461

METHOD: EPA 5030/8020

Matrix: Water

Parameter	Reporting Limit µg/l	Lab No: Descriptor:	Results - µg/l 2461-1 (MW-2)
Benzene	0.5		160
Toluene	0.5		22
Ethylbenzene	0.5		3.5
Xylenes (total)	0.5		17
Dilution Factor:			5

METHOD: 5030 / GC FID

Parameter	Reporting Limit mg/l	Lab No: Descriptor:	Results - mg/l 2461-1 (MW-2)
TPH - gasoline	0.05		2.8
Dilution Factor:			5

NOTE: ND = not detected.

SUMMARY OF LABORATORY RESULTS *

Pacific Supply - Project No. 29.7

WATER

Lab Number	Descriptor	Sampling Date	TPH-gasoline mg/l	Benzene µg/l	Toluene µg/l	Ethylbenzene µg/l	Xylenes µg/l
2461-1	MW-2	7/15/96	2.8	160	22	3.5	17

* *See original laboratory report dated 8/1/96 for complete results.*

QUALITY CONTROL SUMMARY

Client: BACE Environmental
Client Contact: Joel Bruxvoort
Sample Date: 7/15/96
Analysis Date: 7/29/96

BAFS Log No. : 2461

Matrix: Water

Parameter	% RECOVERY				
	CCV%*	Blank	Spike	Spike Dup	RPD
Gasoline	96	ND	93	90	3.3
Benzene	97	ND	90	94	4.3
Toluene	95	ND	94	98	4.2
Ethylbenzene	99	ND	91	97	6.4
Xylene	96	ND	91	94	3.2

* Continuous Calibration Verification Standard

PROJ. NO.	PROJECT NAME
29.7	PACIFIC Supply
L.P. NO.	SAMPLERS: (Signature) Tom Allen

№ 2671

DATE	SAMPLE I.D.	TYPE	NO. OF CONTAINERS	ANALYSIS GAS/BTEX	REMARKS
7/15/96	MW-2	WATER	4	X	2461-1

LABORATORY: BAFS

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Tom Allen	7/16/96 5:10 PM	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)
	7-17-96 1200	William H. Bo

Remarks: Std TAT. Results to Joel Bruxvoort

BRUNSING ASSOCIATES, INC.

Offices:

PO Box 588
Windsor CA 95492
707-838-3027

1735 E. Bayshore Rd., #A
Redwood City CA 94063
415-364-9031

1515 Ninth Street
Rock Springs WY 82901
307-362-9277

BACE Analytical
& Field Services, Inc.

March 8, 1996
Log No: 2383
Laboratory Certification Number: 1264

BACE Environmental
a division of
Brunsing Associates, Inc.
P. O. Box 588
Windsor, California 95492

ATTN: Joel Bruxvoort

RE: Results of the analyses of groundwater samples obtained for project number 29.12 on March 2, 1996.

Dear Mr. Bruxvoort,

This letter serves to confirm the analytical results previously communicated to you. Should any questions arise concerning procedure or results, please feel free to contact us.

Sincerely,

William G. Rotz
Director, Mobile Analytical Services

Tami Hucke Norgrove
Laboratory Manager

Client: BACE Environmental
Client Contact: Joel Bruxvoort

Sample Date: 3/2/96
Analysis Date: 3/5/96

BAFS Log No: 2383

METHOD: EPA 5030/8020

Matrix: Water

Parameter	Reporting Limit µg/l	Lab No: Descriptor:	Results - µg/l 2383-1 (A)	2383-2 (B)
Benzene	0.5		ND	ND
Toluene	0.5		ND	ND
Ethylbenzene	0.5		ND	ND
Xylenes (total)	0.5		ND	ND
Dilution Factor:			1	1

METHOD: 5030 / GC FID

Parameter	Reporting Limit mg/l	Lab No: Descriptor:	Results - mg/l 2383-1 (A)	2383-2 (B)
TPH - gasoline	0.05		ND	ND
Dilution Factor:			1	1

NOTE: ND = not detected.

Client: BACE Environmental
Client Contact: Joel Bruxvoort

Sample Date: 3/2/96
Analysis Date: 3/5/96

BAFS Log No: 2383

METHOD: EPA 5030/8020

Matrix: Water

Parameter	Reporting Limit µg/l	Lab No: Descriptor:	Results - µg/l 2383-3 (C)
Benzene	0.5		3.2
Toluene	0.5		2.3
Ethylbenzene	0.5		1.4
Xylenes (total)	0.5		7.5
Dilution Factor:			1

METHOD: 5030 / GC FID

Parameter	Reporting Limit mg/l	Lab No: Descriptor:	Results - mg/l 2383-3 (C)
TPH - gasoline	0.05		ND
Dilution Factor:			1

NOTE: ND = not detected.

SUMMARY OF LABORATORY RESULTS *

Pacific Supply - Project No. 29.12

WATER

Lab Number	Descriptor	Sampling Date	TPH-gasoline mg/l	Benzene µg/l	Toluene µg/l	Ethylbenzene µg/l	Xylenes µg/l
2383-1	A	3-2-96	ND	ND	ND	ND	ND
2383-2	B	3-2-96	ND	ND	ND	ND	ND
2383-3	C	3-2-96	ND	3.2	2.3	1.4	7.5

** See original laboratory report dated 3/8/96 for complete results.*

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS	ANALYSIS 8015/8020	Nº 2693
29.12	PACIFIC SUPPLY OAKLAND			
L.P. NO.	SAMPLERS: (Signature)			
DATE	SAMPLE I.D. / TYPE			REMARKS
3-2-96	"A" W	3	X	2383-1 EFFLUENT 11:25
11	"B" W	3	X	2383-2 MID CARBON 11:30
11	"C" W	3	X	2383-3 INFLUENT 11:40

LABORATORY:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Remarks
	3-2-96 11:45		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	
	3-6-96 1100	William M Petty	

BRUNSING ASSOCIATES, INC.

Offices:

PO Box 588
Windsor CA 95492
707-838-3027

1735 E. Bayshore Rd., 2A
Redwood City CA 94063
415-364-9031

1515 Ninth Street
Rock Springs WY 82901
307-362-9277

BACE Analytical
& Field Services, Inc.

March 18, 1996
Log No: 2388
Laboratory Certification Number: 1264

BACE Environmental
a division of
Brunsing Associates, Inc.
P. O. Box 588
Windsor, California 95492

ATTN: Joel Bruxvoort

RE: Results of the analyses of air samples obtained for project number 29.12 on March 12, 1996.

Dear Mr. Bruxvoort,

This letter serves to confirm the analytical results previously communicated to you. Should any questions arise concerning procedure or results, please feel free to contact us.

Sincerely,

William G. Rotz
Director, Mobile Analytical Services

Tami Hucke Norgrove
Laboratory Manager

Client: BACE Environmental
Client Contact: Joel Bruxvoort

Sample Date: 3/12/96
Analysis Date: 3/14/96

BAFS Log No: 2388

METHOD: EPA 5030/8020

Matrix: Air

Parameter	Reporting Limit mg/m³	Lab No: / Descriptor:	Results - mg/m³ 2388-1 (Effluent)	2388-2 (Influent)
Benzene	0.10		1.0	11
Toluene	0.10		0.23	18
Ethylbenzene	0.10		0.19	4.9
Xylenes (total)	0.10		0.12	12
Dilution Factor:			1	5

METHOD: 5030 / GC FID

Parameter	Reporting Limit mg/m³	Lab No: / Descriptor:	Results - mg/m³ 2388-1 (Effluent)	2388-2 (Influent)
TPH - gasoline	10		14	820
Dilution Factor:			1	5

NOTE: ND = not detected.

Client: BACE Environmental
Client Contact: Joel Bruxvoort

Sample Date: 3/12/96
Analysis Date: 3/14/96

BAFS Log No: 2388

METHOD: EPA 5030/8020

Matrix: Air

Parameter	Reporting Limit ppm_v	Lab No: Descriptor:	Results -ppm_v 2388-1 (Effluent)	2388-2 (Influent)
Benzene	0.030		0.31	3.4
Toluene	0.030		0.060	4.7
Ethylbenzene	0.030		0.043	1.1
Xylenes (total)	0.030		0.030	2.7
Dilution Factor:			1	5

METHOD: 5030 / GC FID

Parameter	Reporting Limit ppm_v	Lab No: Descriptor:	Results -ppm_v 2388-1 (Effluent)	2388-2 (Influent)
TPH - gasoline	3.0		4.7	270
Dilution Factor:			1	5

NOTE: ND = not detected.

SUMMARY OF LABORATORY RESULTS *

Pacific Supply Co.- Project No. 29.12

AIR

Lab Number	Descriptor	Sampling Date	TPH-gasoline mg/m 3	Benzene mg/m 3	Toluene mg/m 3	Ethylbenzene mg/m 3	Xylenes mg/m 3
2388-1	Effluent	3-12-96	14	1.0	0.23	0.19	0.12
2388-2	Influent	3-12-96	820	11	18	4.9	12

AIR

Lab Number	Descriptor	Sampling Date	TPH-gasoline ppmv	Benzene ppmv	Toluene ppmv	Ethylbenzene ppmv	Xylenes ppmv
2388-1	Effluent	3-12-96	4.7	0.31	0.060	0.043	0.030
2388-2	Influent	3-12-96	270	3.4	4.7	1.1	2.7

** See original laboratory report dated 3/18/96 for complete results.*

QUALITY CONTROL SUMMARY

Client: BACE Environmental
Client Contact: Joel Bruxvoort
Sample Date: 3/12/96
Analysis Date: 3/14/96

BAFS Log No. : 2388

Matrix: Air

Parameter	% RECOVERY				
	CCV%*	Blank	Spike	Spike Dup	RPD
Gasoline	96	ND	97	104	7.0
Benzene	103	ND	95	100	5.1
Toluene	103	ND	97	104	7.0
Ethylbenzene	104	ND	97	103	6.0
Xylene	103	ND	101	110	8.5

* Continuous Calibration Verification Standard

PROJ. NO.	PROJECT NAME
29	PACIFIC SUPPLY · OAKLAND, CA
L.P. NO.	SAMPLERS: (Signature)
	[signature]

№ 2694

DATE	SAMPLE I.D.	TYPE	NO. OF CONTAINERS	ANALYSIS: 8015/8020												REMARKS
3-12-96	EFFLUENT	A	1	X												11:15 EFFLUENT 2388-1
3-12-96	INFLUENT	A	1	X												11:30 INFLUENT 2388-2

LABORATORY:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Remarks
[signature]			PLEASE SEND RESULTS TO MR JOEL BRUXVOORT
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	
	3/13/96 1200	[signature] William ...	

BRUNSING ASSOCIATES, INC.

Offices:

PO Box 588
Windsor CA 95492
707-838-3027

1735 E. Bayshore Rd., 2A
Redwood City CA 94063
415-364-9031

1515 Ninth Street
Rock Springs WY 82901
307-362-9277

BACE Analytical
& Field Services, Inc.

April 1, 1996
Log No: 2398
Laboratory Certification Number: 1264

BACE Environmental
a division of
Brunsing Associates, Inc.
1735 East Bayshore Road, Suite 1A
Redwood City, California 94063

ATTN: Joel Bruxvoort

RE: Results of the analyses of air samples obtained for project number 29 on March 26, 1996.

Dear Mr. Bruxvoort,

This letter serves to confirm the analytical results previously communicated to you. Should any questions arise concerning procedure or results, please feel free to contact us.

Sincerely,

William G. Rotz
Director, Mobile Analytical Services

Tami Hucke Norgrove
Laboratory Manager

Client: BACE Environmental
Client Contact: Joel Bruxvoort

Sample Date: 3/26/96
Analysis Date: 3/30/96

BAFS Log No: 2398

METHOD: EPA 5030/8020

Matrix: Air

Parameter	Reporting Limit ppm_v	Lab No: Descriptor:	Results -ppm_v 2398-1 (Effluent)	2398-2 (Influent)
Benzene	0.030		0.52	1.2
Toluene	0.030		0.076	2.3
Ethylbenzene	0.030		ND	0.55
Xylenes (total)	0.030		0.048	2.2
Dilution Factor:			1	5

METHOD: 5030 / GC FID

Parameter	Reporting Limit ppm_v	Lab No: Descriptor:	Results -ppm_v 2398-1 (Effluent)	2398-2 (Influent)
TPH - gasoline	3.0		ND	73
Dilution Factor:			1	5

NOTE: ND = not detected.

SUMMARY OF LABORATORY RESULTS *

Pacific Supply Co. - Project No. 29

AIR

Lab Number	Descriptor	Sampling Date	TPH-gasoline mg/m^3	Benzene mg/m^3	Toluene mg/m^3	Ethylbenzene mg/m^3	Xylenes mg/m^3
2398-1	Effluent	3-26-96	ND	1.7	0.29	ND	0.21
2398-2	Influent	3-26-96	220	3.9	8.8	2.4	9.5

AIR

Lab Number	Descriptor	Sampling Date	TPH-gasoline ppm_v	Benzene ppm_v	Toluene ppm_v	Ethylbenzene ppm_v	Xylenes ppm_v
2398-1	Effluent	3-26-96	ND	0.52	0.076	ND	0.048
2398-2	Influent	3-26-96	73	1.2	2.3	0.55	2.2

* *See original laboratory report dated 4/1/96 for complete results.*

QUALITY CONTROL SUMMARY

Client: BACE Environmental
Client Contact: Joel Bruxvoort
Sample Date: 3/26/96
Analysis Date: 3/30/96

BAFS Log No. : 2398

Matrix: Air

Parameter	% RECOVERY				
	CCV%*	Blank	Spike	Spike Dup	RPD
Gasoline	99	ND	102	105	2.9
Benzene	97	ND	99	100	1.0
Toluene	97	ND	98	100	2.0
Ethylbenzene	98	ND	94	99	5.2
Xylene	99	ND	94	101	7.2

* Continuous Calibration Verification Standard

PROJ. NO.	PROJECT NAME	NO. OF CON-TAINERS	ANALYSIS 8015/8020												Nº 2695
29	PACIFIC SUPPLY OAKLAND														
L.P. NO.	SAMPLERS: (Signature)														

DATE	SAMPLE I.D.	TYPE	NO. OF CONTAINERS	8015/8020											REMARKS
3-26-96	EFFLUENT	4	1	X											EFFLUENT 15:50 2398-1
3-26-96	INFLUENT	4	1	X											INFLUENT 16:00 -2

LABORATORY:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)
	3/28/96 1406	[signature]

Remarks

PLEASE SEND RESULTS TO MR JOEL BRUXVOORT.

BRUNSING ASSOCIATES, INC.

Offices:

PO Box 588
Windsor CA 95492
707-838-3027

1735 E. Bayshore Rd., 2A
Redwood City CA 94063
415-364-9031

1515 Ninth Street
Rock Springs WY 82901
307-362-9277

BACE Analytical
& Field Services, Inc.

April 15, 1996
Log No: 2404
Laboratory Certification Number: 1264

BACE Environmental
a division of
Brunsing Associates, Inc.
1735 East Bayshore Road, Suite 1A
Redwood City, California 94063

ATTN: Joel Bruxvoort

RE: Results of the analyses of air samples obtained for project number 29.12 on April 8, 1996.

Dear Mr. Bruxvoort,

This letter serves to confirm the analytical results previously communicated to you. Should any questions arise concerning procedure or results, please feel free to contact us.

Sincerely,

William G. Rotz
Director, Mobile Analytical Services

Tami Hucke Norgrove
Laboratory Manager

Client: BACE Environmental
Client Contact: Joel Bruxvoort

Sample Date: 4/8/96
Analysis Date: 4/11/96

BAFS Log No: 2404

METHOD: EPA 5030/8020

Matrix: Air

Parameter	Reporting Limit mg/m³	Lab No: Descriptor:	Results - mg/m³ 2404-1 (Influent)	2404-2 (Effluent)
Benzene	0.10		4.7	1.0
Toluene	0.10		8.0	0.16
Ethylbenzene	0.10		2.6	ND
Xylenes (total)	0.10		8.4	0.28
Dilution Factor:			5	1

METHOD: 5030 / GC FID

Parameter	Reporting Limit mg/m³	Lab No: Descriptor:	Results - mg/m³ 2404-1 (Influent)	2404-2 (Effluent)
TPH - gasoline	10		290	ND
Dilution Factor:			5	1

NOTE: ND = not detected.

Client: BACE Environmental
Client Contact: Joel Bruxvoort

Sample Date: 4/8/96
Analysis Date: 4/11/96

BAFS Log No: 2404

METHOD: EPA 5030/8020

Matrix: Air

Parameter	Reporting Limit ppm_v	Lab No: Descriptor:	Results -ppm_v 2404-1 (Influent)	2404-2 (Effluent)
Benzene	0.030		1.5	0.31
Toluene	0.030		2.1	0.042
Ethylbenzene	0.030		0.59	ND
Xylenes (total)	0.030		2.5	0.064
Dilution Factor:			5	1

METHOD: 5030 / GC FID

Parameter	Reporting Limit ppm_v	Lab No: Descriptor:	Results -ppm_v 2404-1 (Influent)	2404-2 (Effluent)
TPH - gasoline	3.0		97	ND
Dilution Factor:			5	1

NOTE: ND = not detected.

SUMMARY OF LABORATORY RESULTS *

Pacific Supply, Oakland - Project No. 29.12

AIR

Lab Number	Descriptor	Sampling Date	TPH-gasoline mg/m^3	Benzene mg/m^3	Toluene mg/m^3	Ethylbenzene mg/m^3	Xylenes mg/m^3
2404-1	Influent	4-8-96	290	4.7	8.0	2.6	8.4
2404-2	Effluent	4-8-96	ND	1.0	0.16	ND	0.28

AIR

Lab Number	Descriptor	Sampling Date	TPH-gasoline ppm_v	Benzene ppm_v	Toluene ppm_v	Ethylbenzene ppm_v	Xylenes ppm_v
2404-1	Influent	4-8-96	97	1.5	2.1	0.59	2.5
2404-2	Effluent	4-8-96	ND	0.31	0.042	ND	0.064

** See original laboratory report dated 4/15/96 for complete results.*

QUALITY CONTROL SUMMARY

Client: BACE Environmental
Client Contact: Joel Bruxvoort
Sample Date: 4/8/96
Analysis Date: 4/11/96

BAFS Log No. : 2404

Matrix: Air

Parameter	% RECOVERY				
	CCV%*	Blank	Spike	Spike Dup	RPD
Gasoline	98	ND	102	103	1.0
Benzene	100	ND	97	98	1.0
Toluene	98	ND	97	102	5.0
Ethylbenzene	99	ND	99	100	1.0
Xylene	100	ND	98	102	4.0

* Continuous Calibration Verification Standard

PROJ. NO.

PROJECT NAME: PACIFIC SUPPLY - OAKLAND CA.

L.P. NO.

SAMPLERS: (Signature)

№ 2696

DATE	SAMPLE I.D.	TYPE	NO. OF CONTAINERS	ANALYSIS 8015/8020	REMARKS
4-8-96	INFLUENT	A	1	X	2404-1 9:25 INFLUENT
4-8-96	EFFLUENT	A	1	X	2404-2 9:40 STACK EFFLUENT

LABORATORY:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time 4/9/96 1140	Received for Laboratory by: (Signature)

Remarks: STAT

Joel Brinkwood

BRUNSING ASSOCIATES, INC.

Offices:

PO Box 588
Windsor CA 95492
707-838-3027

1735 E. Bayshore Rd., 2A
Redwood City CA 94063
415-364-9031

1515 Ninth Street
Rock Springs WY 8290
307-362-9277

BACE Analytical
& Field Services, Inc.

April 25, 1996
Log No: 2411
Laboratory Certification Number: 1264

BACE Environmental
a division of
Brunsing Associates, Inc.
1735 East Bayshore Road, Suite 1A
Redwood City, California 94063

ATTN: Joel Bruxvoort

RE: Results of the analyses of vapor samples obtained for project number 29.12 on April 22, 1996.

Dear Mr. Bruxvoort,

This letter serves to confirm the analytical results previously communicated to you. Should any questions arise concerning procedure or results, please feel free to contact us.

Sincerely,

William G. Rotz
Director, Mobile Analytical Services

Tami Hucke Norgrove
Laboratory Manager

Client: BACE Environmental
Client Contact: Joel Bruxvoort

Sample Date: 4/22/96
Analysis Date: 4/24/96

BAFS Log No: 2411

METHOD: EPA 5030/8020

Matrix: Air

Parameter	Reporting Limit mg/m³	Lab No: / Descriptor:	Results - mg/m³ 2411-1 (Effluent)	2411-2 (Influent)
Benzene	0.10		0.81	2.7
Toluene	0.10		0.34	5.2
Ethylbenzene	0.10		ND	1.2
Xylenes (total)	0.10		0.16	5.2
Dilution Factor:			1	1

METHOD: 5030 / GC FID

Parameter	Reporting Limit mg/m³	Lab No: / Descriptor:	Results - mg/m³ 2411-1 (Effluent)	2411-2 (Influent)
TPH - gasoline	10		130	170
Dilution Factor:			1	1

NOTE: ND = not detected.

Client: BACE Environmental
Client Contact: Joel Bruxvoort

Sample Date: 4/22/96
Analysis Date: 4/24/96

BAFS Log No: 2411

METHOD: EPA 5030/8020

Matrix: Air

Parameter	Reporting Limit ppm_v	Lab No: Descriptor:	Results -ppm_v 2411-1 (Effluent)	2411-2 (Influent)
Benzene	0.030		0.25	0.83
Toluene	0.030		0.089	1.4
Ethylbenzene	0.030		ND	0.27
Xylenes (total)	0.030		0.037	1.2
Dilution Factor:			1	1

METHOD: 5030 / GC FID

Parameter	Reporting Limit ppm_v	Lab No: Descriptor:	Results -ppm_v 2411-1 (Effluent)	2411-2 (Influent)
TPH - gasoline	3.0		43	57
Dilution Factor:			1	1

NOTE: ND = not detected.

SUMMARY OF LABORATORY RESULTS *

Pacific Supply Co.- Project No. 29.12

AIR

Lab Number	Descriptor	Sampling Date	TPH-gasoline mg/m ^{3}	Benzene mg/m ^{3}	Toluene mg/m ^{3}	Ethylbenzene mg/m ^{3}	Xylenes mg/m ^{3}
2411-1	Effluent	4-22-96	130	0.81	0.34	ND	0.16
2411-2	Influent	4-22-96	170	2.7	5.2	1.2	5.2

AIR

Lab Number	Descriptor	Sampling Date	TPH-gasoline ppm_v	Benzene ppm_v	Toluene ppm_v	Ethylbenzene ppm_v	Xylenes ppm_v
2411-1	Effluent	4-22-96	43	0.25	0.089	ND	0.037
2411-2	Influent	4-22-96	57	0.83	1.4	0.27	1.2

* *See original laboratory report dated 4/25/96 for complete results.*

QUALITY CONTROL SUMMARY

Client: BACE Environmental
Client Contact: Joel Bruxvoort
Sample Date: 4/22/96
Analysis Date: 4/24/96

BAFS Log No. : 2411

Matrix: Air

Parameter	% RECOVERY				
	CCV%*	Blank	Spike	Spike Dup	RPD
Gasoline	96	ND	105	108	2.8
Benzene	96	ND	103	103	<1
Toluene	103	ND	98	98	<1
Ethylbenzene	105	ND	108	110	1.8
Xylene	106	ND	106	110	3.7

* Continuous Calibration Verification Standard

PROJ. NO.	PROJECT NAME	NO. OF CON-TAINERS	ANALYSIS: 8015/8020											№ 2697
29.12	Pacific Supply													
L.P. NO.	SAMPLERS: (Signature) [signature]													REMARKS

DATE	SAMPLE I.D.	TYPE	NO. OF CONTAINERS	8015/8020											REMARKS
4-22-96	EFFLUENT	AIR	1	X								2411-1			STACK EFFLUENT 13:30
4-22-96	INFLUENT	"	1	X								2411-2			INFLUENT 13:40

LABORATORY:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)
	4/23/96 1230	[signature]

Remarks
PLEASE SEND RESULTS TO: MR JOEL BRUXVOORT -

BRUNSING ASSOCIATES, INC.

Offices:

PO Box 588
Windsor CA 95492
707-838-3027

1735 E. Bayshore Rd., 2A
Redwood City CA 94063
415-364-9031

1515 Ninth Street
Rock Springs WY 829
307-362-9277

BACE Analytical
& Field Services, Inc.

May 13, 1996
Log No: 2420
Laboratory Certification Number: 1264

BACE Environmental
a division of
Brunsing Associates, Inc.
1735 East Bayshore Road, Suite 1A
Redwood City, California 94063

ATTN: Joel Bruxvoort

RE: Results of the analyses of air samples obtained for project number 29.12 on May 6, 1996.

Dear Mr. Bruxvoort,

This letter serves to confirm the analytical results previously communicated to you. Should any questions arise concerning procedure or results, please feel free to contact us.

Sincerely,

William G. Rotz
Director, Mobile Analytical Services

Tami Hucke Norgrove
Laboratory Manager

Client: BACE Environmental
Client Contact: Joel Bruxvoort

Sample Date: 5-6-96
Analysis Date: 5-9-96

BAFS Log No: 2420

METHOD: EPA 5030/8020

Matrix: Air

Parameter	Reporting Limit mg/m3	Lab No: Descriptor:	Results - mg/m3 2420-1 (Influent)	2420-2 (Effluent)
Benzene	0.10		54	1.3
Toluene	0.10		72	0.58
Ethylbenzene	0.10		28	0.12
Xylenes (total)	0.10		95	0.38
Dilution Factor:			5	1

METHOD: 5030 / GC FID

Parameter	Reporting Limit mg/m3	Lab No: Descriptor:	Results - mg/m3 2420-1 (Influent)	2420-2 (Effluent)
TPH - gasoline	10		4500	100
Dilution Factor:			5	1

NOTE: ND = not detected.

Client: BACE Environmental
Client Contact: Joel Bruxvoort

Sample Date: 5-6-96
Analysis Date: 5-9-96

BAFS Log No: 2420

METHOD: EPA 5030/8020

Matrix: Air

Parameter	Reporting Limit ppm_v	Lab No: Descriptor:	Results - ppm_v 2420-1 (Influent)	2420-2 (Effluent)
Benzene	0.030		17	0.40
Toluene	0.030		19	0.15
Ethylbenzene	0.030		6.4	0.030
Xylenes (total)	0.030		22	0.087
Dilution Factor:			5	1

METHOD: 5030 / GC FID

Parameter	Reporting Limit ppm_v	Lab No: Descriptor:	Results - ppm_v 2420-1 (Influent)	2420-2 (Effluent)
TPH - gasoline	3.0		1500	33
Dilution Factor:			5	1

NOTE: ND = not detected.

SUMMARY OF
LABORATORY RESULTS *

Pacific Supply - Project No. 29.12

AIR

Lab Number	Descriptor	Sampling Date	TPH (gasoline) mg/m^3	Benzene mg/m^3	Toluene mg/m^3	Ethylbenzene mg/m^3	Xylenes mg/m^3
2420-1	Influent	5-6-96	4500	54	72	28	95
2420-2	Effluent	5-6-96	100	1.3	0.58	0.12	0.38

Lab Number	Descriptor	Sampling Date	TPH (gasoline) ppm_v	Benzene ppm_v	Toluene ppm_v	Ethylbenzene ppm_v	Xylenes ppm_v
2420-1	Influent	5-6-96	1500	17	19	6.4	22
2420-2	Effluent	5-6-96	33	0.40	0.15	0.030	0.087

* *See original laboratory report dated 5/13/96 for complete results.*

QUALITY CONTROL SUMMARY

Client: BACE Environmental
Client Contact: Joel Bruxvoort
Sample Date: 5/6/96
Analysis Date: 5/9/96

BAFS Log No. : 2420

Matrix: Air

Parameter	% RECOVERY				
	CCV%*	Blank	Spike	Spike Dup	RPD
Gasoline	99	ND	102	101	1.0
Benzene	96	ND	102	102	<1
Toluene	100	ND	101	103	2.0
Ethylbenzene	104	ND	99	101	2.0
Xylene	101	ND	98	97	1.0

* Continuous Calibration Verification Standard

PROJ. NO.	PROJECT NAME
29.12	PACIFIC SUPPLY
L.P. NO.	SAMPLERS: (Signature)
	[signature]

№ 2698

DATE	SAMPLE I.D.	TYPE	NO. OF CONTAINERS	ANALYSIS 8015/8020	REMARKS
5-6-96	INFLUENT	AIR	1	X	: 9:30 2420-1
5-6-96	EFFLUENT (STACK).	AIR	1	X	9:55 2420-2

LABORATORY:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	5-6-96	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)
	5/9/96 1015	[signature]

Remarks

PLEASE SEND RESULTS TO MR. JOE BRUNSWICK

BRUNSING ASSOCIATES, INC.

Offices:

PO Box 588
Windsor CA 95492
707-838-3027

1735 E. Bayshore Rd., 2A
Redwood City CA 94063
415-364-9031

1515 Ninth Street
Rock Springs WY 82901
307-362-9277

BACE Analytical
& Field Services, Inc.

May 24, 1996
Log No: 2425
Laboratory Certification Number: 1264

BACE Environmental
a division of
Brunsing Associates, Inc.
1735 East Bayshore Road, Suite 1A
Redwood City, California 94063

ATTN: Joel Bruxvoort

RE: Results of the analyses of vapor samples obtained for project number 29.12 on May 20, 1996.

Dear Mr. Bruxvoort,

This letter serves to confirm the analytical results previously communicated to you. Should any questions arise concerning procedure or results, please feel free to contact us.

Sincerely,

William G. Rotz
Director, Mobile Analytical Services

Tami Hucke Norgrove
Laboratory Manager

Client: BACE Environmental
Client Contact: Joel Bruxvoort

Sample Date: 5/20/96
Analysis Date: 5/23/96

BAFS Log No: 2425

METHOD: EPA 5030/8020

Matrix: Air

Parameter	Reporting Limit mg/m³	Lab No: Descriptor:	Results - mg/m³ 2425-1 (Influent)	2425-2 (Effluent)
Benzene	0.10		11	0.44
Toluene	0.10		22	0.18
Ethylbenzene	0.10		7.6	ND
Xylenes (total)	0.10		31	ND
Dilution Factor:			5	1

METHOD: 5030 / GC FID

Parameter	Reporting Limit mg/m³	Lab No: Descriptor:	Results - mg/m³ 2425-1 (Influent)	2425-2 (Effluent)
TPH - gasoline	10		920	31
Dilution Factor:			5	1

NOTE: ND = not detected.

Client: BACE Environmental
Client Contact: Joel Bruxvoort

Sample Date: 5/20/96
Analysis Date: 5/23/96

BAFS Log No: 2425

METHOD: EPA 5030/8020

Matrix: Air

Parameter	Reporting Limit ppm_v	Lab No: Descriptor:	Results -ppm_v 2425-1 (Influent)	2425-2 (Effluent)
Benzene	0.030		3.4	0.14
Toluene	0.030		5.7	0.046
Ethylbenzene	0.030		1.7	ND
Xylenes (total)	0.030		7.0	ND
Dilution Factor:			5	1

METHOD: 5030 / GC FID

Parameter	Reporting Limit ppm_v	Lab No: Descriptor:	Results -ppm_v 2425-1 (Influent)	2425-2 (Effluent)
TPH - gasoline	3.0		310	10
Dilution Factor:			5	1

NOTE: ND = not detected.

SUMMARY OF
LABORATORY RESULTS *

Pacific Supply Co.- Project No. 29.12

AIR

Lab Number	Descriptor	Sampling Date	TPH-gasoline mg/m^3	Benzene mg/m^3	Toluene mg/m^3	Ethylbenzene mg/m^3	Xylenes mg/m^3
2425-1	Influent	5-20-96	920	11	22	7.6	31
2425-2	Effluent	5-20-96	31	0.44	0.18	ND	ND

AIR

Lab Number	Descriptor	Sampling Date	TPH-gasoline ppm_v	Benzene ppm_v	Toluene ppm_v	Ethylbenzene ppm_v	Xylenes ppm_v
2425-1	Influent	5-20-96	310	3.4	5.7	1.7	7.0
2425-2	Effluent	5-20-96	10	0.14	0.046	ND	ND

** See original laboratory report dated 5/24/96 for complete results.*

QUALITY CONTROL SUMMARY

Client: BACE Environmental
Client Contact: Joel Bruxvoort
Sample Date: 5/20/96
Analysis Date: 5/23/96

BAFS Log No. : 2425

Matrix: Air

Parameter	% RECOVERY				
	CCV%*	Blank	Spike	Spike Dup	RPD
Gasoline	92	ND	101	97	4.0
Benzene	91	ND	95	96	1.0
Toluene	97	ND	94	95	1.1
Ethylbenzene	97	ND	101	100	1.0
Xylene	102	ND	106	108	1.9

* Continuous Calibration Verification Standard

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS	ANALYSIS 8015/8020	№ 2699
29.12	PACIFIC SUPPLY			
L.P. NO.	SAMPLERS: (Signature) [signature]			REMARKS

DATE	SAMPLE I.D.	TYPE	NO. OF CONTAINERS	8015/8020	REMARKS
5-20-96	INFLUENT	AIR	1	✓	INFLUENT 2425-1
5-20-96	EFFLUENT	AIR	1	✓	STACK EFFLUENT 2425-2

PLEASE SEND VERBAL AND FINISHED RESULTS TO JOEL BRUXVOORT AT 415-364 9031

LABORATORY:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Remarks
[signature]			
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	
	5/22/96 1000	[signature]	

BRUNSING ASSOCIATES, INC.

Offices:

PO Box 588
Windsor CA 95492
707-838-3027

1735 E. Bayshore Rd., 2A
Redwood City CA 94063
415-364-9031

1515 Ninth Street
Rock Springs WY 82901
307-362-9277

BACE Analytical
& Field Services, Inc.

June 7, 1996
Log No: 2429
Laboratory Certification Number: 1264

BACE Environmental
a division of
Brunsing Associates, Inc.
1735 E. Bayshore Road, Suite 1A
Redwood City, California 94063

ATTN: Joel Bruxvoort

RE: Results of the analyses of air samples obtained for project number 29.12 on June 3, 1996.

Dear Mr. Bruxvoort,

This letter serves to confirm the analytical results previously communicated to you. Should any questions arise concerning procedure or results, please feel free to contact us.

Sincerely,

William G. Rotz
Director, Mobile Analytical Services

Tami Hucke Norgrove
Laboratory Manager

Client: BACE Environmental
Client Contact: Joel Bruxvoort

Sample Date: 6-3-96
Analysis Date: 6-6-96

BAFS Log No: 2429

METHOD: EPA 5030/8020

Matrix: Air

Parameter	Reporting Limit mg/m³	Lab No: / Descriptor:	Results - mg/m³ 2429-1 (Effluent)	2429-2 (Influent)
Benzene	0.10		0.69	13
Toluene	0.10		0.90	24
Ethylbenzene	0.10		0.12	5.7
Xylenes (total)	0.10		0.39	31
Dilution Factor:			1	5

METHOD: 5030 / GC FID

Parameter	Reporting Limit mg/m³	Lab No: / Descriptor:	Results - mg/m³ 2429-1 (Effluent)	2429-2 (Influent)
TPH - gasoline	10		150	1000
Dilution Factor:			1	5

NOTE: ND = not detected.

Client: BACE Environmental
Client Contact: Joel Bruxvoort

BAFS Log No: 2429

Sample Date: 6-3-96
Analysis Date: 6-6-96

METHOD: EPA 5030/8020

Matrix: Air

Parameter	Reporting Limit ppm_v	Lab No: Descriptor:	Results - ppm_v 2429-1 (Effluent)	2429-2 (Influent)
Benzene	0.030		0.21	4.0
Toluene	0.030		0.23	6.3
Ethylbenzene	0.030		0.030	1.3
Xylenes (total)	0.030		0.089	7.0
Dilution Factor:			1	5

METHOD: 5030 / GC FID

Parameter	Reporting Limit ppm_v	Lab No: Descriptor:	Results - ppm_v 2429-1 (Effluent)	2429-2 (Influent)
TPH - gasoline	3.0		50	330
Dilution Factor:			1	5

NOTE: ND = not detected.

SUMMARY OF LABORATORY RESULTS *

Pacific Supply Co. - Project No. 29.12

AIR

Lab Number	Descriptor	Sampling Date	TPH (gasoline) mg/m^3	Benzene mg/m^3	Toluene mg/m^3	Ethylbenzene mg/m^3	Xylenes mg/m^3
2429-1	Effluent	6-3-96	150	0.69	0.90	0.12	0.39
2429-2	Influent	6-3-96	1000	13	24	5.7	31

AIR

Lab Number	Descriptor	Sampling Date	TPH (gasoline) ppm_v	Benzene ppm_v	Toluene ppm_v	Ethylbenzene ppm_v	Xylenes ppm_v
2429-1	Effluent	6-3-96	50	0.21	0.23	0.030	0.089
2429-2	Influent	6-3-96	330	4.0	6.3	1.3	7.0

** See original laboratory report dated 6/7/96 for complete results.*

QUALITY CONTROL SUMMARY

Client: BACE Environmental
Client Contact: Joel Bruxvoort
Sample Date: 6/3/96
Analysis Date: 6/6/96

BAFS Log No. : 2429

Matrix: Air

Parameter	% RECOVERY				
	CCV%*	Blank	Spike	Spike Dup	RPD
Benzene	101	ND	97	102	5.0
Toluene	99	ND	98	104	6.0
Ethylbenzene	100	ND	104	107	2.8
Xylenes	99	ND	106	108	1.9
Gasoline	93	ND	99	103	4.0

* Continuous Calibration Verification Standard

PROJ. NO.	PROJECT NAME		NO. OF CON-TAINERS	ANALYSIS 8015/8020													№ 2700 REMARKS
29.12	PACIFIC SUPPLY , OAKLAND																
L.P. NO.	SAMPLERS: (Signature) [signature]																
DATE	SAMPLE I.D.	TYPE															
6-3-96	EFFLUENT	AIR	1	X								24129-1					~~INFLUENT~~ EFFLUENT 15:20
6-3-96	INFLUENT	AIR	1	X								24129-2					INFLUENT 15:35

PLEASE MAKE VERBAL RESULTS AVAILABLE TO MR. JOEL BRUXVOORT A.S.A.P. 415-364 9031

LABORATORY:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)
	6/5/96 1330	[signature]

Remarks

BRUNSING ASSOCIATES, INC.

Offices:

PO Box 588
Windsor CA 95492
707-838-3027

1735 E. Bayshore Rd., 2A
Redwood City CA 94063
415-364-9031

1515 Ninth Street
Rock Springs WY 82901
307-362-9277

BACE Analytical
& Field Services, Inc.

July 2, 1996
Log No: 2441
Laboratory Certification Number: 1264

BACE Environmental
a division of
Brunsing Associates, Inc.
P. O. Box 588
Windsor, California 95492

ATTN: Joel Bruxvoort

RE: Results of the analyses of air samples obtained for project number 29.12 on June 28, 1996.

Dear Mr. Bruxvoort,

This letter serves to confirm the analytical results previously communicated to you. Should any questions arise concerning procedure or results, please feel free to contact us.

Sincerely,

William G. Rotz
Director, Mobile Analytical Services

Tami Hucke Norgrove
Laboratory Manager

Client: BACE Environmental
Client Contact: Joel Bruxvoort

Sample Date: 6/28/96
Analysis Date: 7/1/96

BAFS Log No: 2441

METHOD: EPA 5030/8020

Matrix: Air

Parameter	Reporting Limit mg/m³	Lab No: Descriptor:	Results - mg/m³ 2441-1 (Influent)	2441-2 (Effluent)
Benzene	0.10		74	31
Toluene	0.10		96	46
Ethylbenzene	0.10		27	10
Xylenes (total)	0.10		96	34
Dilution Factor:			5	5

METHOD: 5030 / GC FID

Parameter	Reporting Limit mg/m³	Lab No: Descriptor:	Results - mg/m³ 2441-1 (Influent)	2441-2 (Effluent)
TPH - gasoline	10		5800	2700
Dilution Factor:			5	5

NOTE: ND = not detected.

PROJ. NO.	PROJECT NAME
29.12	Pacific Supply
L.P. NO.	SAMPLERS: (Signature)

№ 2670

DATE	SAMPLE I.D.	TYPE	NO. OF CON-TAINERS	ANALYSIS: TPH-gas ppmv + mg/m3; BTEX ppmv + mg/m3	REMARKS
6/28/96	Influent	air	1	X X	2441-1
6/28/96	Effluent	air	1	X X	-2

LABORATORY: RAFS

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Remarks
	6/28/96 4:45 pm		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	
	7/1/96 1200		

BRUNSING ASSOCIATES, INC.

Offices:

PO Box 588, Windsor CA 95492, 707-838-3027
1735 E. Bayshore Rd., 2A, Redwood City CA 94063, 415-364-9031
1515 Ninth Street, Rock Springs WY 82901, 307-362-9277